

FIG. 1A

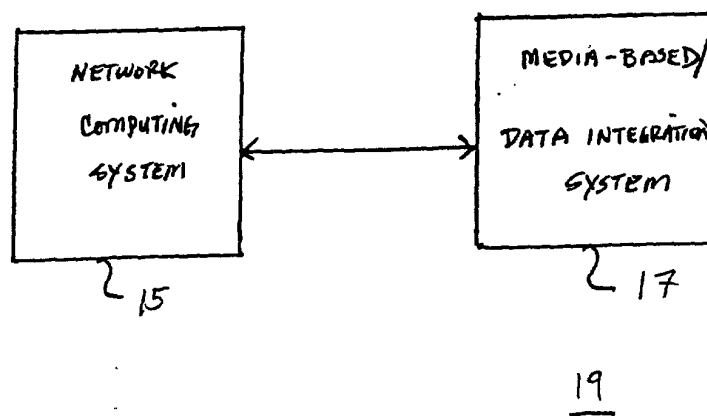
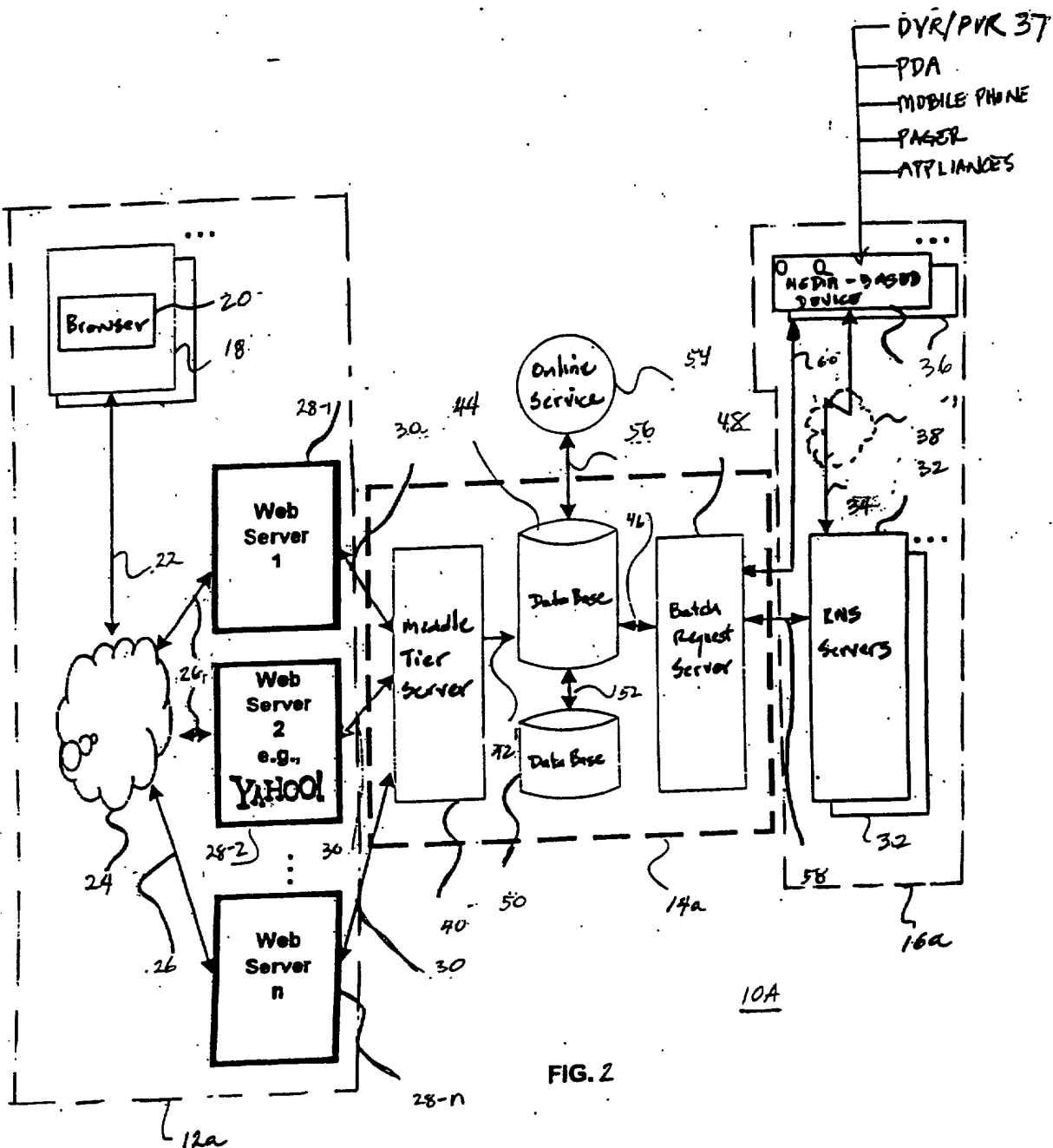


FIG. 1B



18/28/40/32/48/36

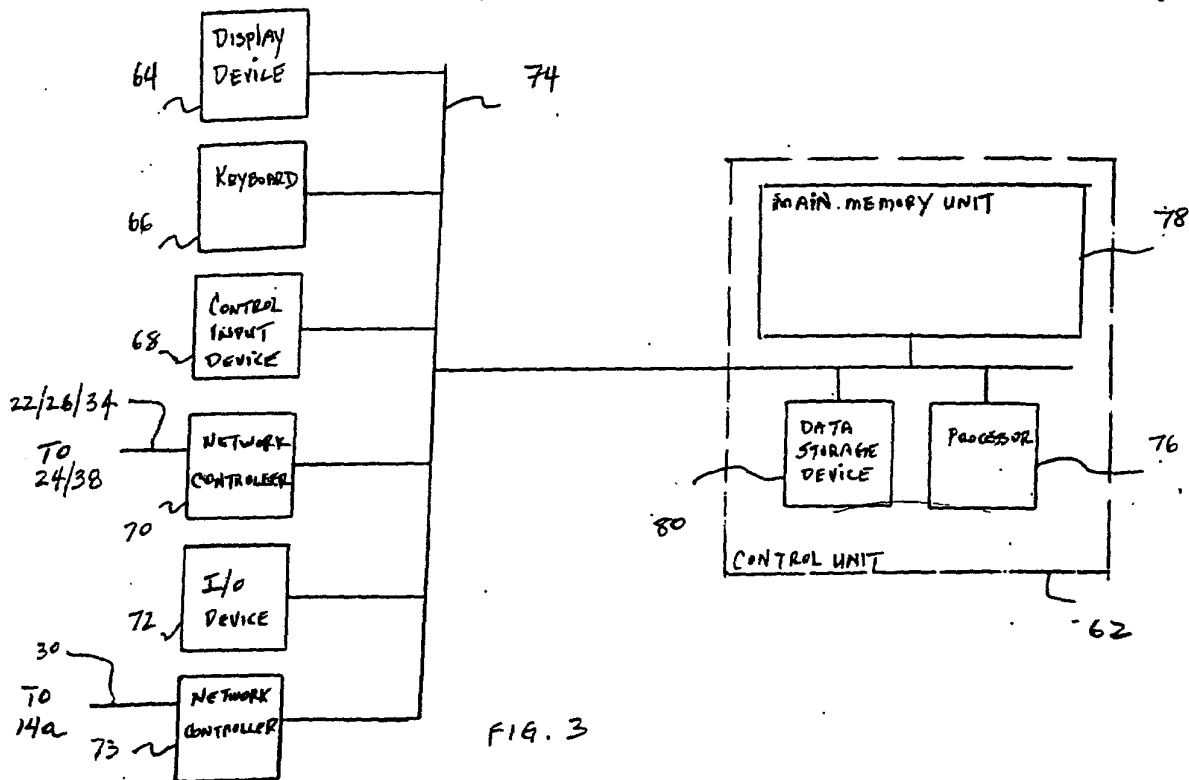


FIG. 3

FIG. 3

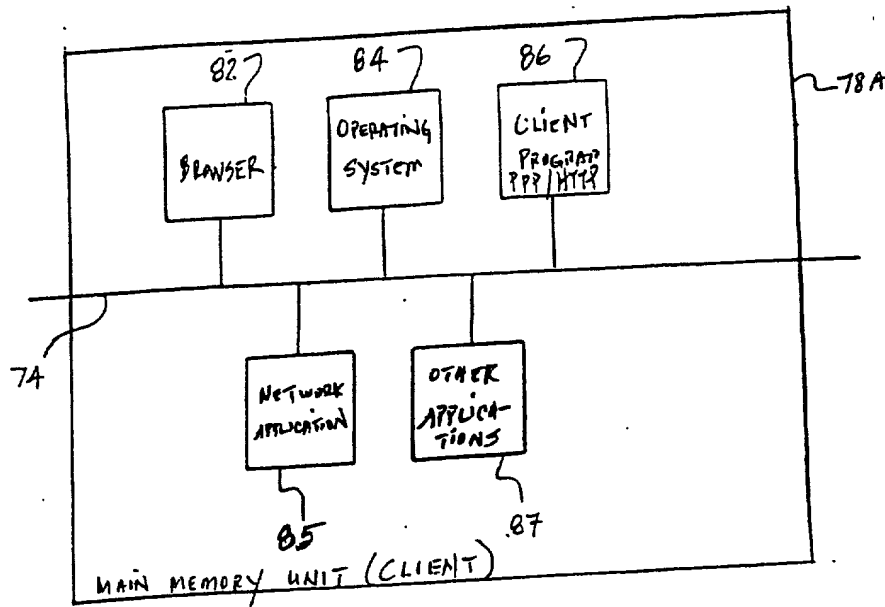


FIG. 4A

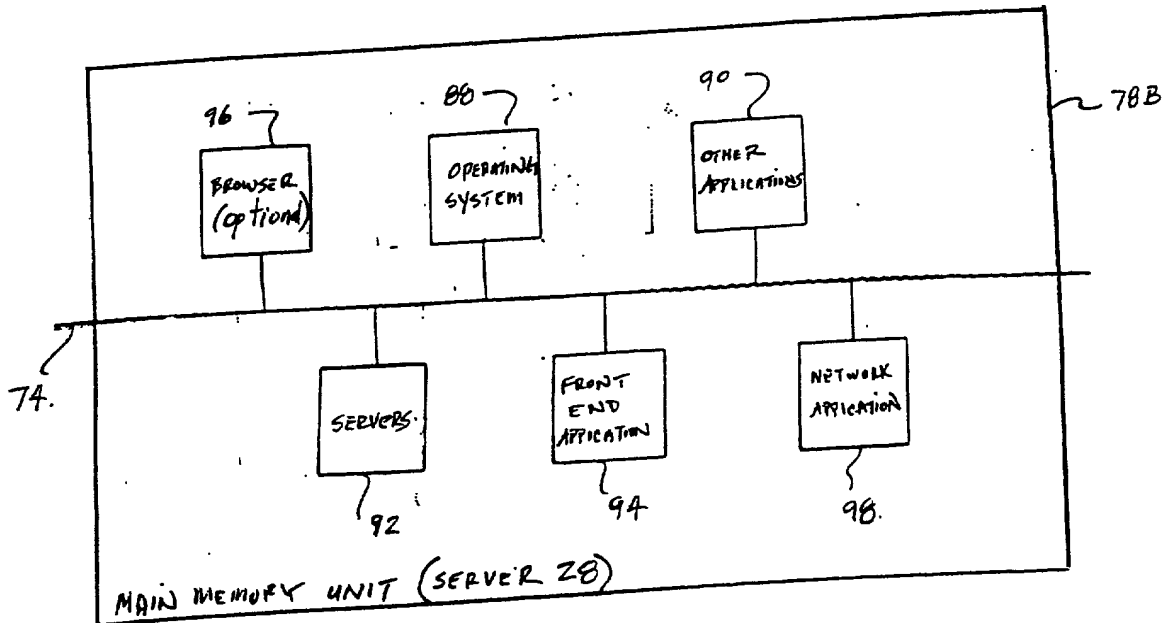


FIG. 4B

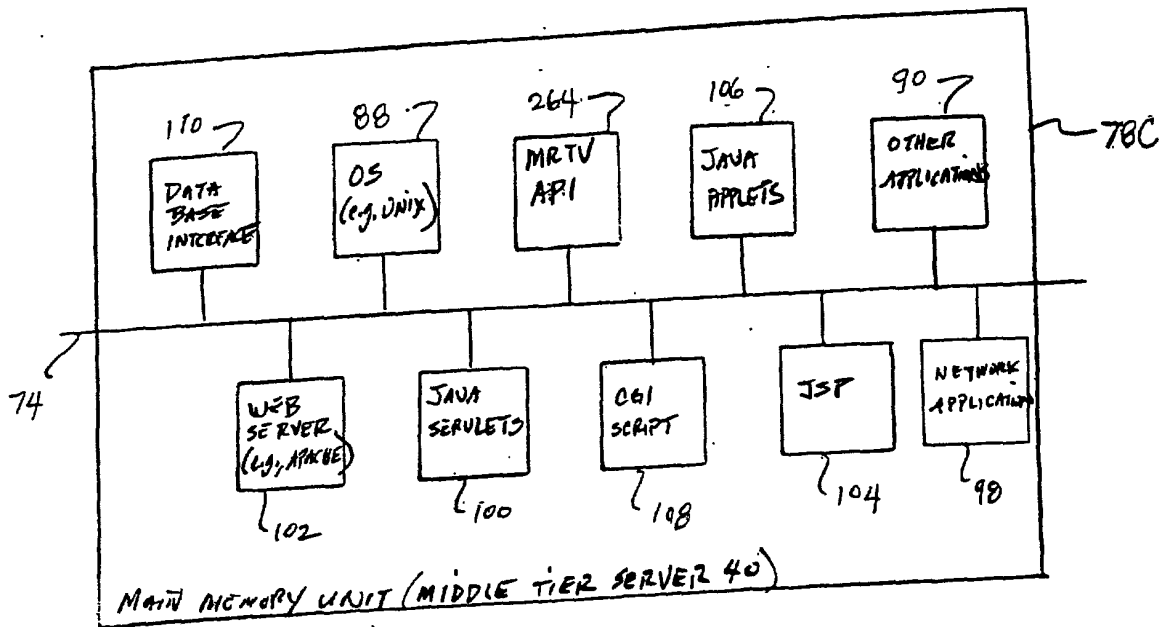


FIG. 4C

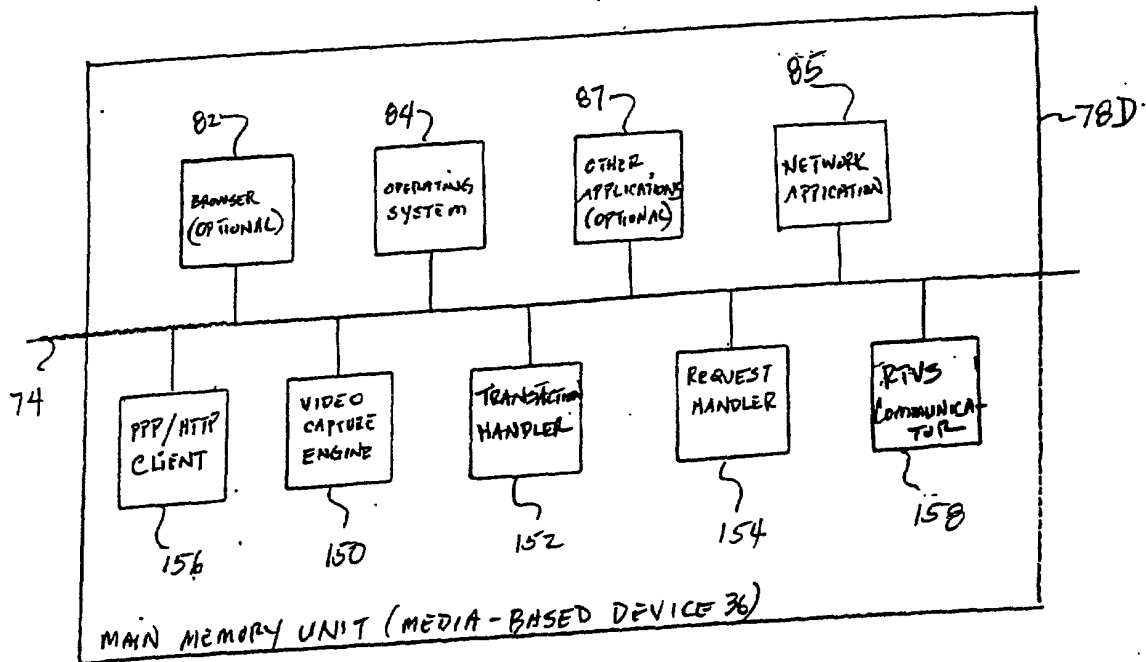


FIG. 4D

FIG. 4C



10B

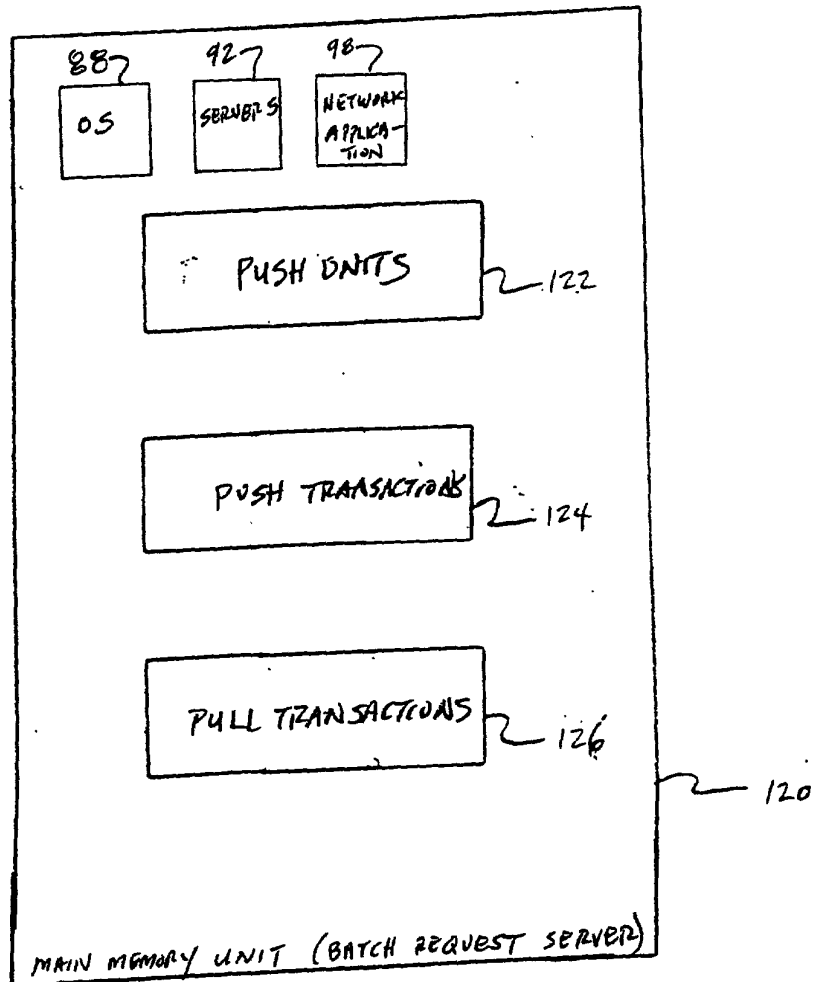


FIG. 6

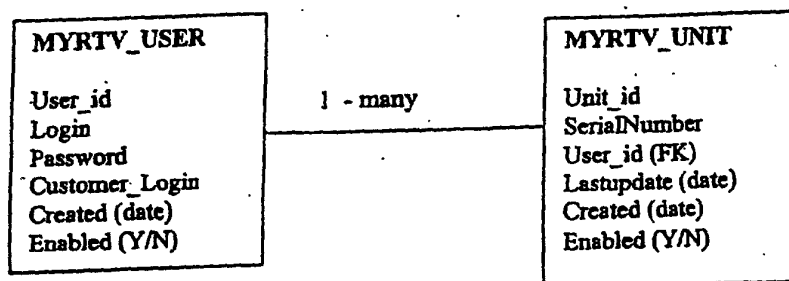


FIG. 7



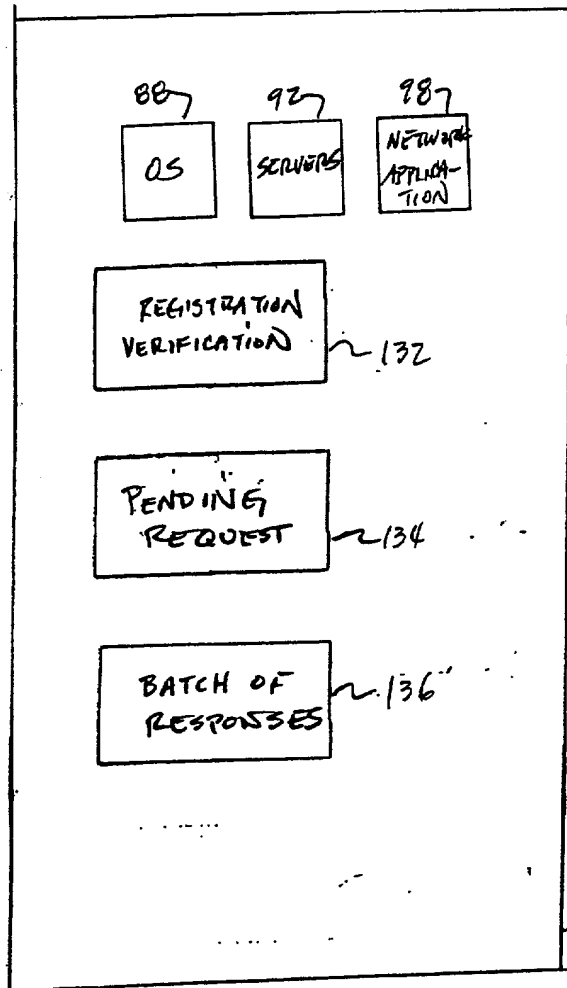


FIG. 8

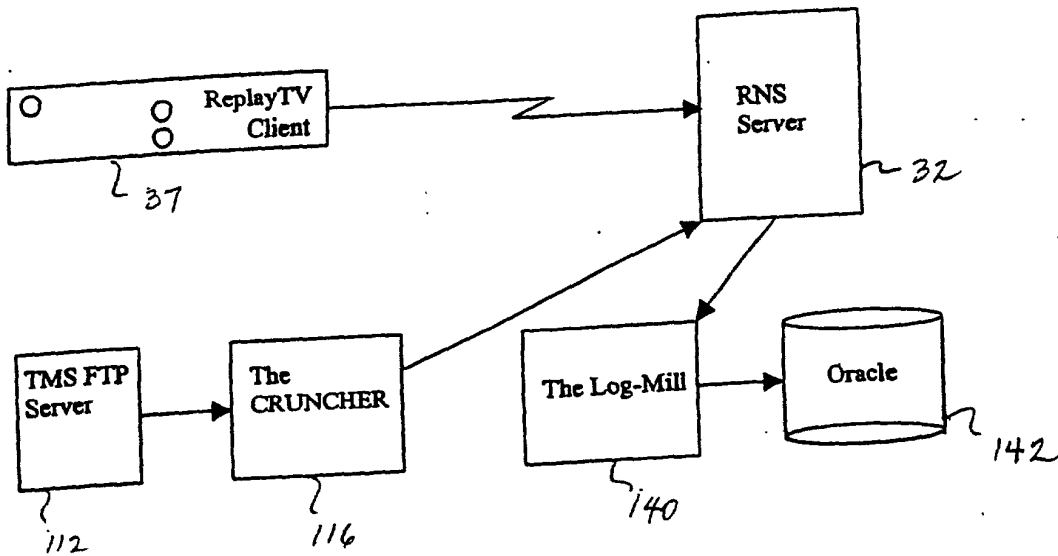


FIG. 9

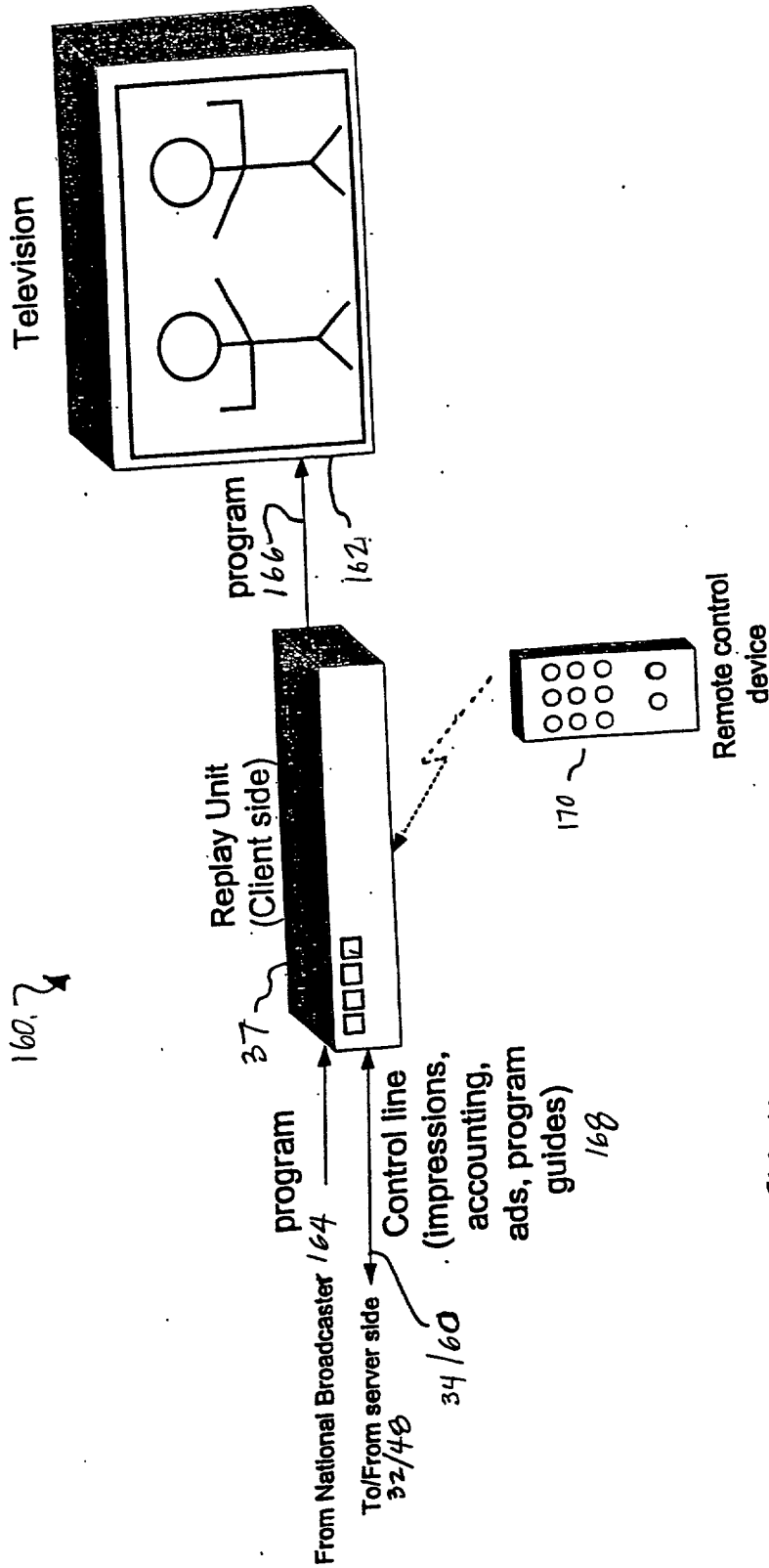


FIG. 10

The diagram shows a website interface for 'my r replaytv'. The logo consists of the text 'my' followed by a circle containing the letter 'r', and then 'replaytv'. Below the logo is the text 'marketing/promotional information'. The interface includes a login section with fields for 'user name:' and 'password:', each followed by a rectangular input box. To the right of the 'user name' box is a 'login' button. Below the 'password' box is a 'remember my password' checkbox and a link that says 'I forgot my password'. Below these fields is a registration section with the text 'Are you a new user to the myreplaytv website?' followed by a 'register' button. At the bottom of the interface are two links: 'Help' and 'Contact Us'. Hand-drawn annotations include a bracket labeled '182' spanning the login fields, a bracket labeled '184' spanning the password field and the 'remember my password' checkbox, and a bracket labeled '180' spanning the entire registration section.

my **r** replaytv<sup>®</sup>  
marketing/promotional information

user name:

password:  ☐ remember my password [I forgot my password](#)

Are you a new user to the myreplaytv website?

[Help](#) [Contact Us](#)

182

184

180

FIG. 11

FOI b7D b7C b7E b7F b7G b7H b7I b7J b7K b7L b7M b7N b7O b7P b7Q b7R b7S b7T b7U b7V b7W b7X b7Y b7Z

my replaytv

Channel Guide

Channel Guide | Replay | Find Shows | Manual Record

Preferences | Help | Logout

Tue 3/06

195 197 194 196 198 200 202

Today 03/06 6 pm 7:00 PM 7:30 PM

0 OXYGEN 1 IN1 2 KTVU 3 LOOR003 4 KRON 5 KPIX 6 KICU 7 KGO 8 KTSF 9 KQED 10 KTEH 11 TVGOS 12 KBHK 13 KBWB 14 KDTV

An Officer and a Gentleman  
Me, Myself & Irene  
6 O'Clock Ne...  
Local Origination  
NewsCenter 4 at 6  
CBS News  
Home Improve...  
ABC 7 News at 6PM  
TV Patrol  
Zoboomafoo  
BBC World Ne...  
TV Guide  
The Simpsons  
The Drew Car...  
Noticias 14

Scary Movie  
Seinfeld  
Local Origination  
Frasier  
Evening Maga...  
Family Feud  
Jeopardy!  
Little Salgo...  
The NewsHour With Jim Le...  
Antiques Roa...  
TV Guide  
Friends  
Power of Att...  
Carita de Ángel

Spin City  
Entertainmen...  
Hollywood Sq...  
Family Feud  
Wheel of For...  
Mandarin New...

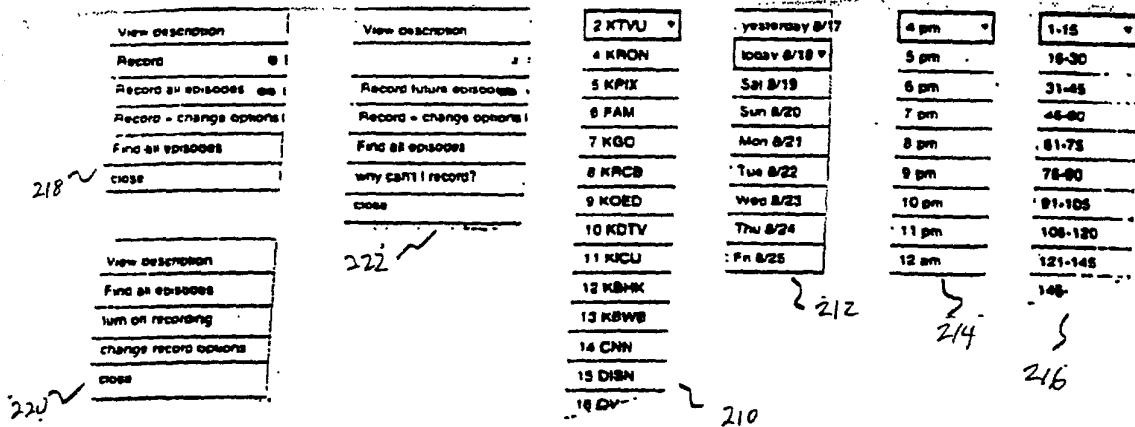
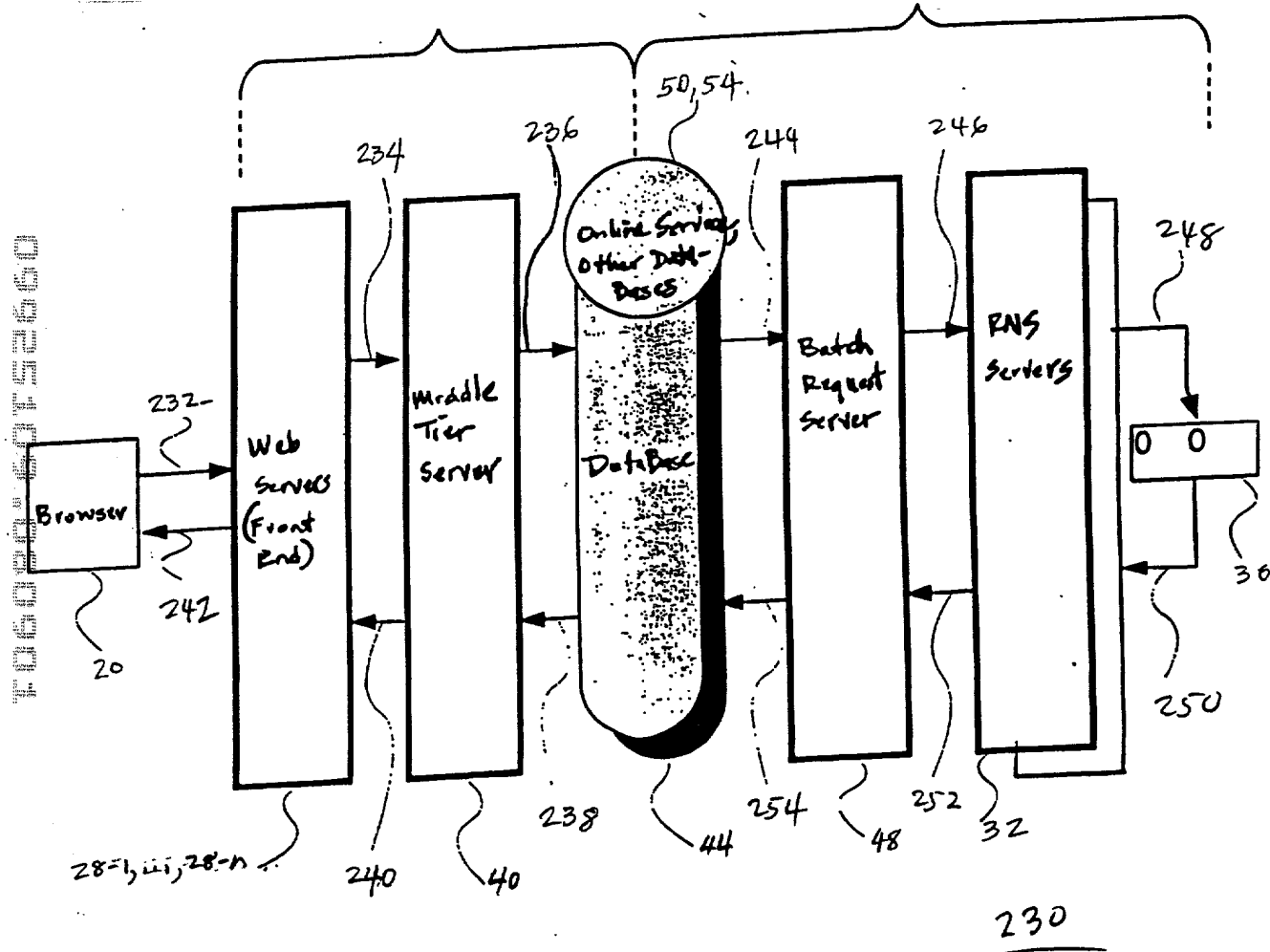


FIG. 12B



# SEQUENCE DIAGRAM

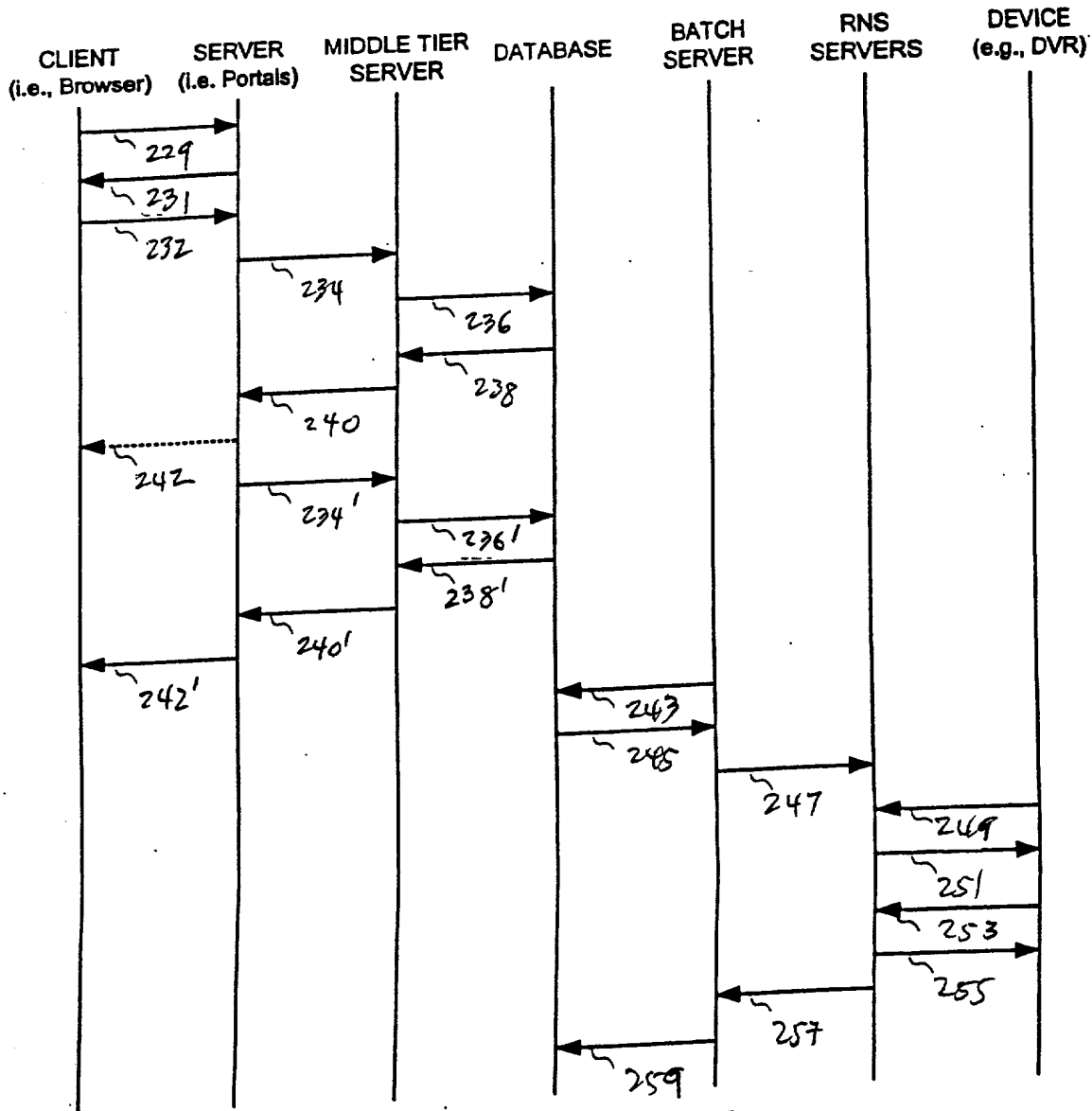


FIG. 13B

2009-07-26 10:00:00



FIG. 14

API Routine	Input Parameters	Output Files (Corresponding XML elements)
CreateAccount	firstname, lastname, address1, address2, city, state, zipcode, serialnumber, login, password, creator	ACCOUNT.XML REPLAYERROR.XML
Login	login, password	ACCOUNT.XML REPLAYERROR.XML
GetProfile	userid	PROFILE.XML (USERINFO, UNITINFO-I) REPLAYERROR.XML
AddRequest	userid, unitid, reqtype(none, show, theme, update) reqtype=show: showtype(single, repeat, manual single, manual repeat), headendid, trnsid, device, starttimegmt, name, durationinminutes, inputsource, quality, guaranteedrecord, numepisodes, weekdayflags, earlieststartinminutes, showguarminminutes reqtype=theme: searchterm, searchflags, suzukiid, durationinminutes, quality, guaranteedrecord reqtype=update: updatetype(deleteshow, preservershow, deletetechannel), channelid, showid	UNITSTATUS.XML (UNITINFO, REQUESTSTATUS-I) REPLAYERROR.XML *Note: REQUESTSTATUS Result=(PENDING, SENT, SUCCESS, GENERAL FAILURE, SCHEDULEFAILURE, ROOMFAILURE)
DeleteRequest	userid, unitid, requestid	DELETERESULT.XML REPLAYERROR.XML
GetReplayGuide	userid, unitid	GUIDE.XML (REPLAYCHANNEL-I) REPLAYERROR.XML *Note: REPLAYCHANNEL Type=(SINGLE, SINGELMANUAL, REPEAT, REPEATMANUAL, THEME, THEMEEXACT, ZONE)
GetChannelLineUp	userid, unitid	CHANNELLINEUP.XML (CHANNEL-I) REPLAYERROR.XML
ChangePassword	userid, currentpassword, newpassword	ACCOUNT.XML REPLAYERROR.XML
GetEPG	userid, unitid, starttimegmt, durationinminutes, startchannel, channelcount	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERROR.XML
ShowGuide	userid, unitid, query, start, count, levelofdetail *Note: query keywords include actor, advisory, desc, mpaarating, title, etc.	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERROR.XML

FIG. 5

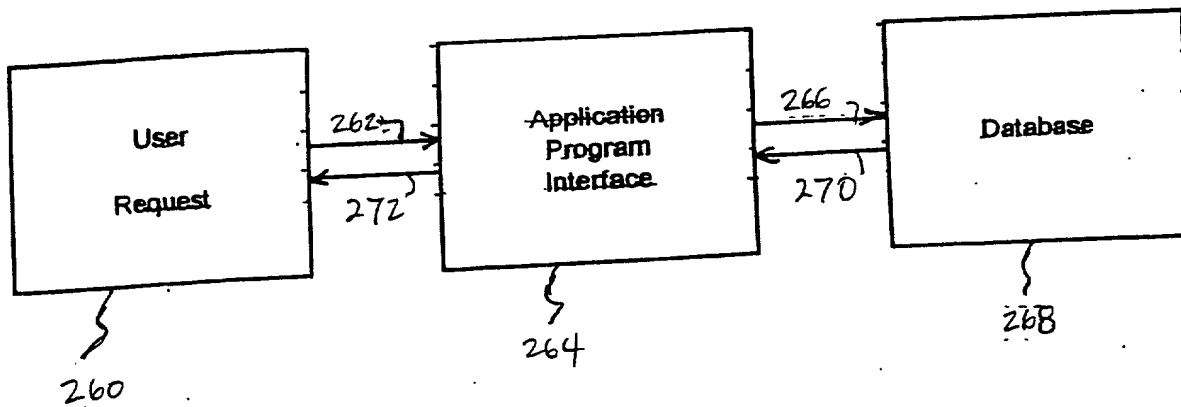


FIG. 16A

FIG. 16B

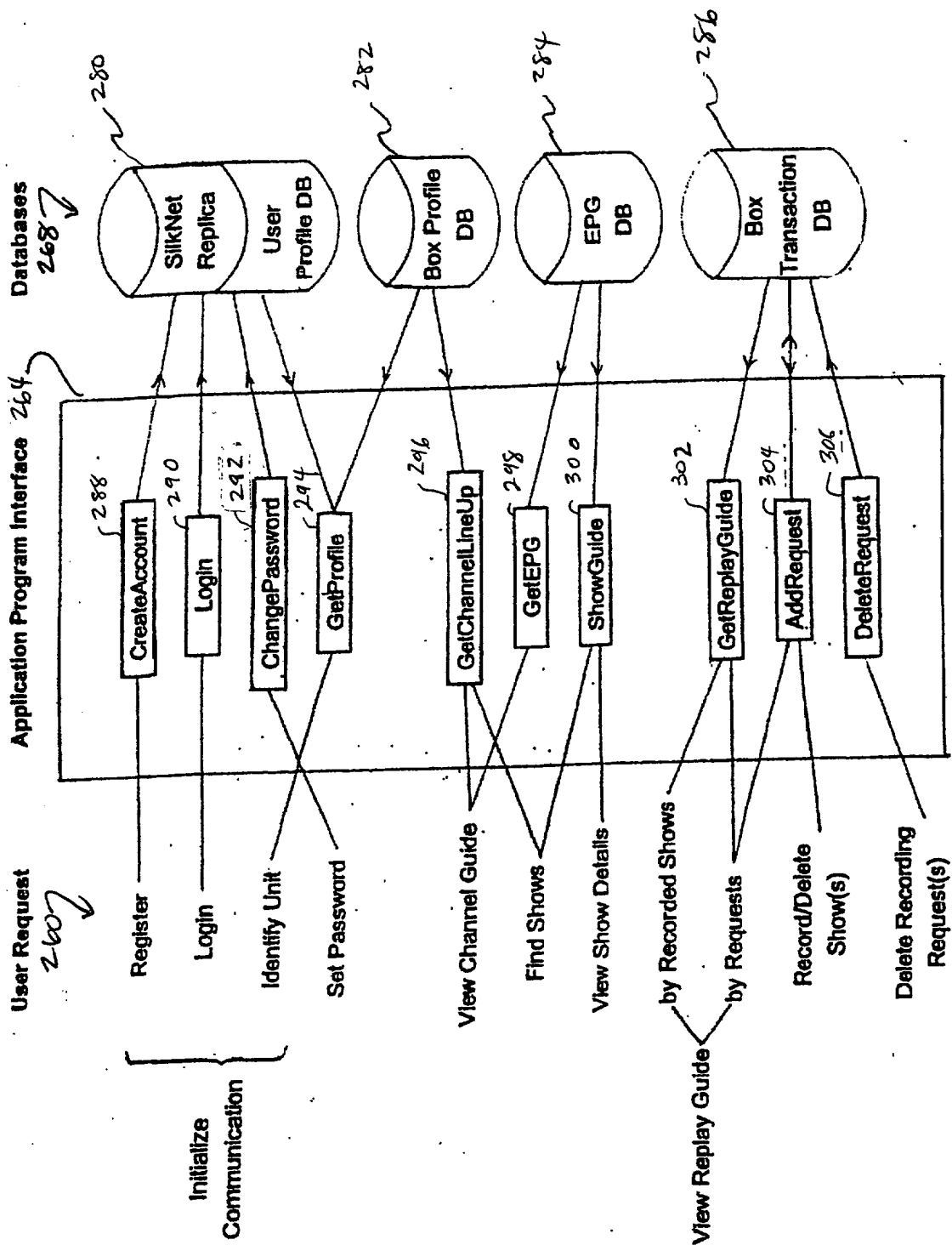


FIG. 16B

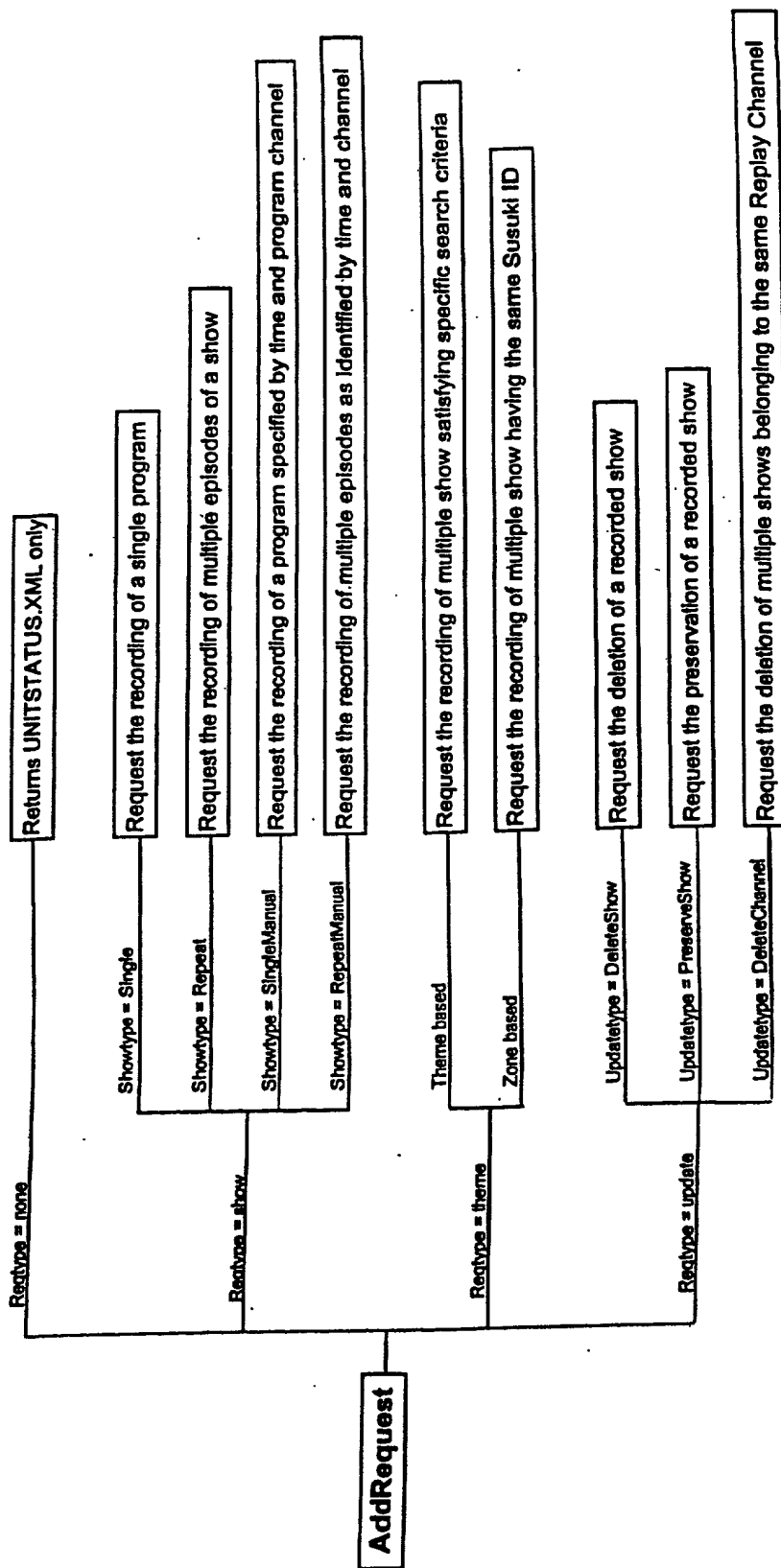


FIG. 17

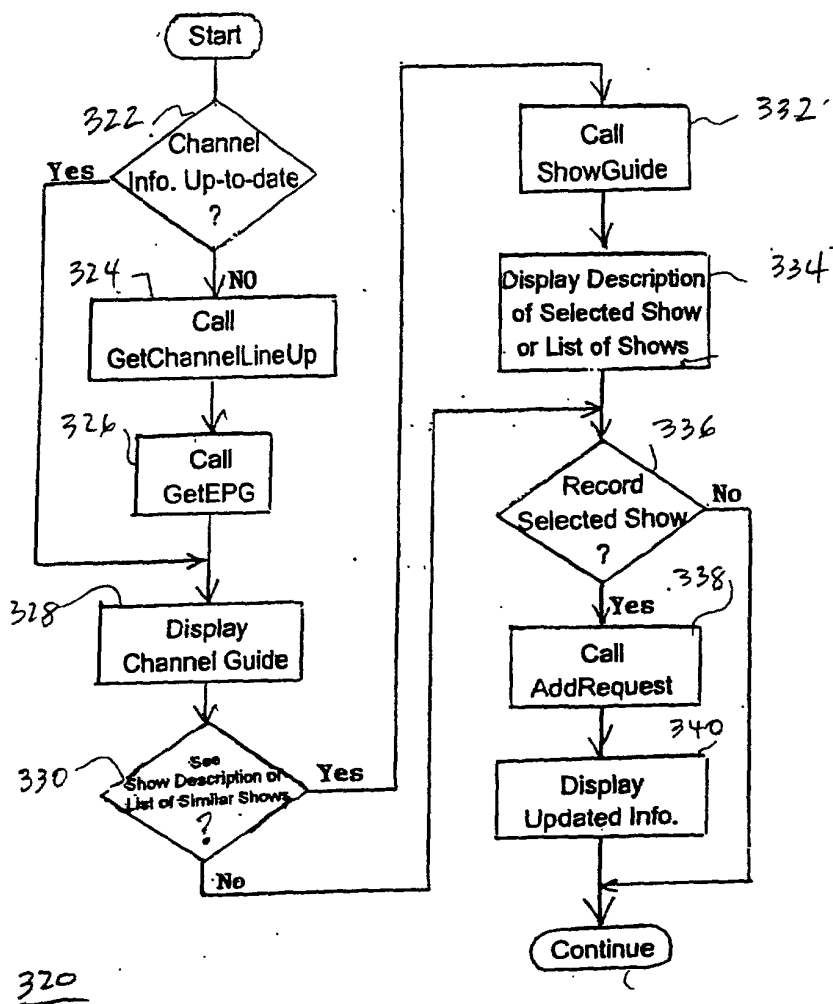


FIG. 18

706030" 50T52660

replaytv

Replay Guide

Replay Shows | Replay Channels

Channel Guide | Replay Guide | Find Shows | Manual Replay

Preferences | Help | Logout

2-350

Watch over 500,000 hours of programming and more, including replays, TV highlights

▶ **Related Channels**

Channel	Details	Status	Request Date
<input type="checkbox"/> A Fistful of Dollars	This single record Replay channel was scheduled to record A Fistful of Dollars from Channel 21(TBS) on Sun, 02/18 at or around 7:00AM - 9:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		02/18
<input type="checkbox"/> Blown Away	This single record Replay channel was scheduled to record Blown Away from Channel 42(USAP) on Tue, 01/16 at or around 9:00PM - 11:30PM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/16
<input type="checkbox"/> Cantonese News	This show-based Replay channel will continuously record the 1 most current episode(s) of Cantonese News occurring every (Sun, Mon, Tue, Wed, Thu, Fri, Sat) on Channel 8(KTSF) at or around 8:00PM - 9:00PM. Guaranteed at EXTENDED quality.		02/28
<input type="checkbox"/> Captain January	This single record Replay channel was scheduled to record Captain January from Channel 49(AMC) on Tue, 01/09 at or around 3:30AM - 5:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/09

FIG. 19A



Broadcast schedule and programming subject to change without notice



Channel	Show Title/Episode	Date/Time	Station	Duration	Size
A Fistful of Dollars	<input type="checkbox"/> A Fistful of Dollars	02/18 7:00AM	21 TBS	(2h)	6.46%
Blown Away	<input type="checkbox"/> Blown Away	01/16 9:00PM	42 USAP	(2h 30m)	8.07%
Captain January	<input type="checkbox"/> Captain January	01/09 3:30AM	49 AMC	(1h 30m)	4.84%
Firewalker	<input type="checkbox"/> Firewalker	02/27 8:00PM	21 TBS	(2h)	6.46%
On Deadly Ground	<input type="checkbox"/> On Deadly Ground	01/07 9:00PM	4 KRON	(2h)	6.46%
Platoon	<input type="checkbox"/> Platoon	02/04 8:00PM	37 TNT	(2h 30m)	8.07%
The Bridge on the River Kwai	<input type="checkbox"/> The Bridge on the River Kwai	12/24 8:00AM	42 USAP	(3h 30m)	11.30%
The Little Princess	<input type="checkbox"/> The Little Princess	12/26 4:15AM	49 AMC	(1h 45m)	5.65%
The Trouble With Harry	<input type="checkbox"/> The Trouble With Harry	12/18 1:05PM	49 AMC	(1h 55m)	6.19%
Welcome to ReplayTV	<input type="checkbox"/> Welcome to ReplayTV	09/08 10:49AM		(15m)	2.42%

FIG. 19B



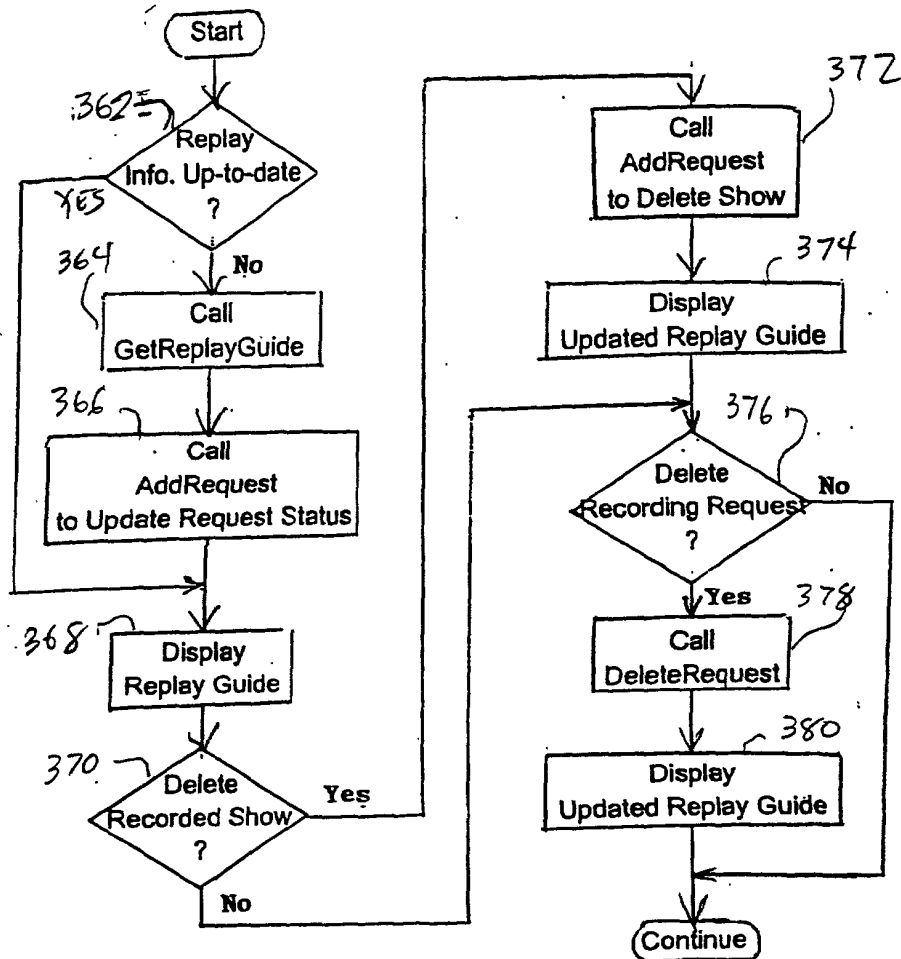


FIG. 20

360

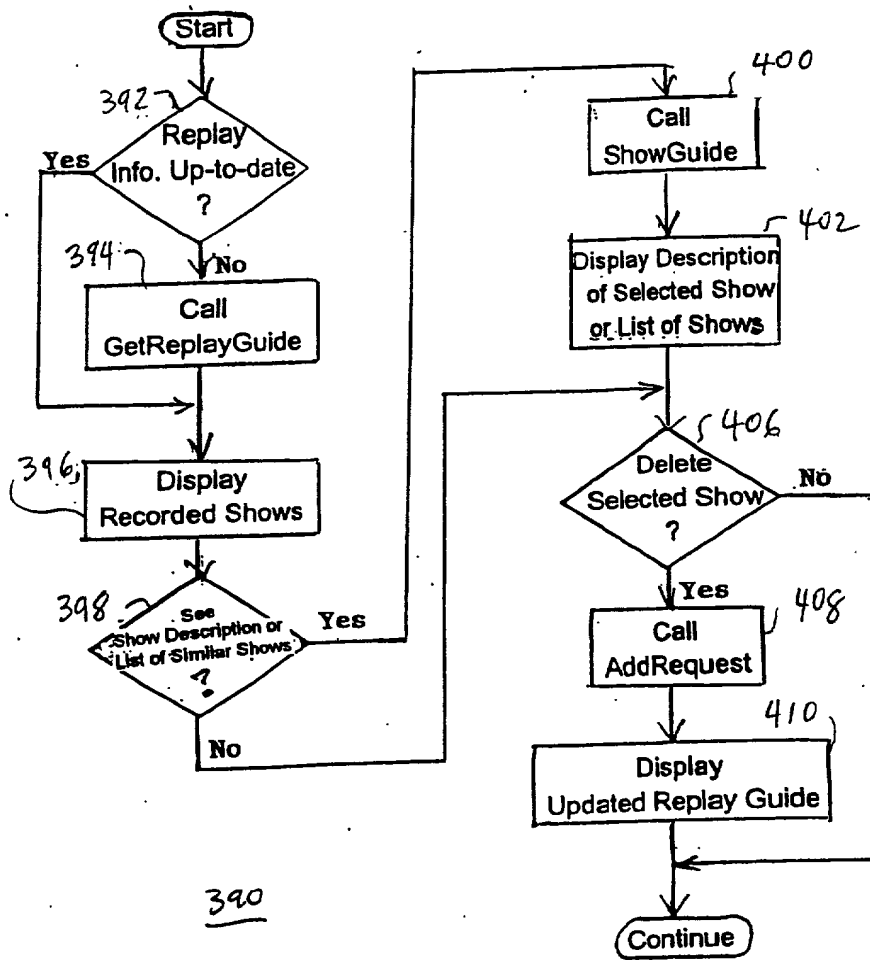


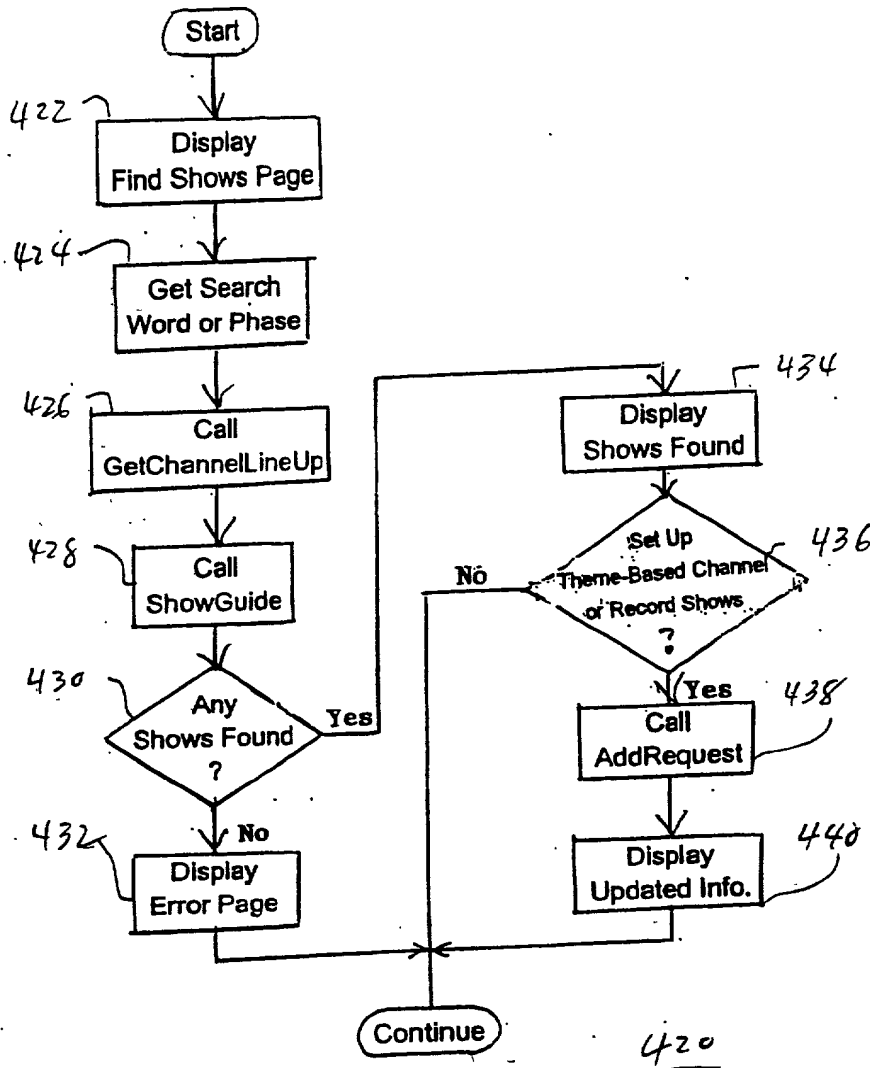
FIG. 21

FIG. 22



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FIG. 22



FOOBB" 60T52660

my replaytv

Channel GuideReplay GuideFind ShowsManual Record

PreferencesHelpLogout

Manual Record

Single RecordingRepeat Recording

Start Date

Mar72001

Start Time

:AM

End Time

:AM

Channel

0 OXYGEN

Quality

Extended

Guaranteed


Yes

Recording duration:

Submit Request

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FIG. 24A

my  replaytv

Channel Guide Find Shows Manual Record Replay Guide

preferences  
help  
logout

# Manual Record

3h 45m available at medium quality  
as of last connection

Single Recording Repeat Recording


Days ☐ Mon ☒ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun

Start Time 7 : 58 PM End Time 11 : 02 PM

Channel 4 KRON

Quality Standard

Guaranteed Yes



452

FIG. 24B

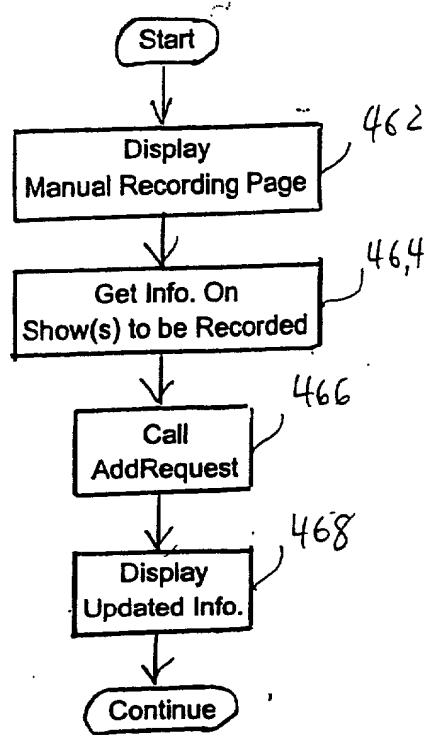


FIG. 25

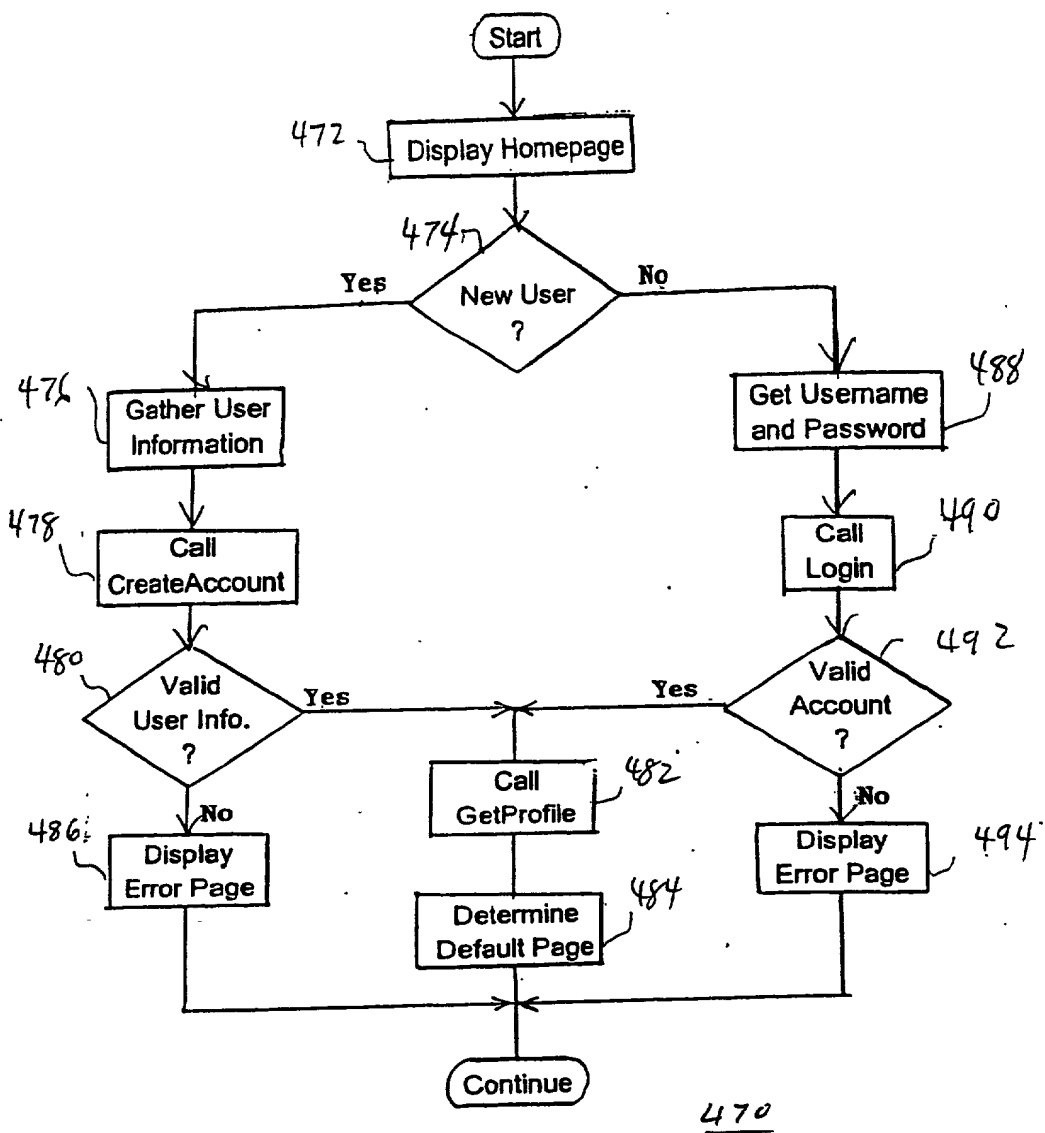


FIG. 26



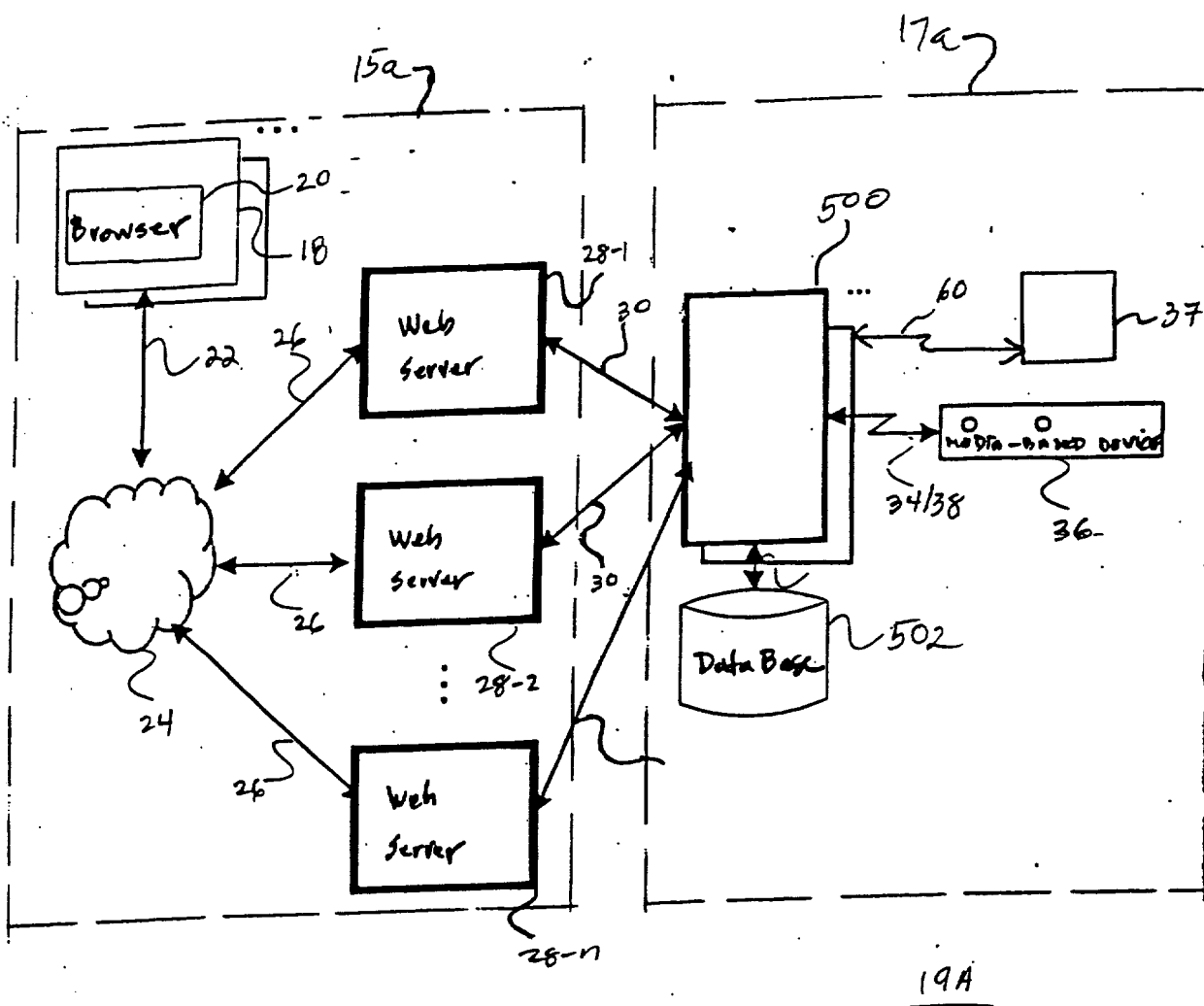


FIG. 27

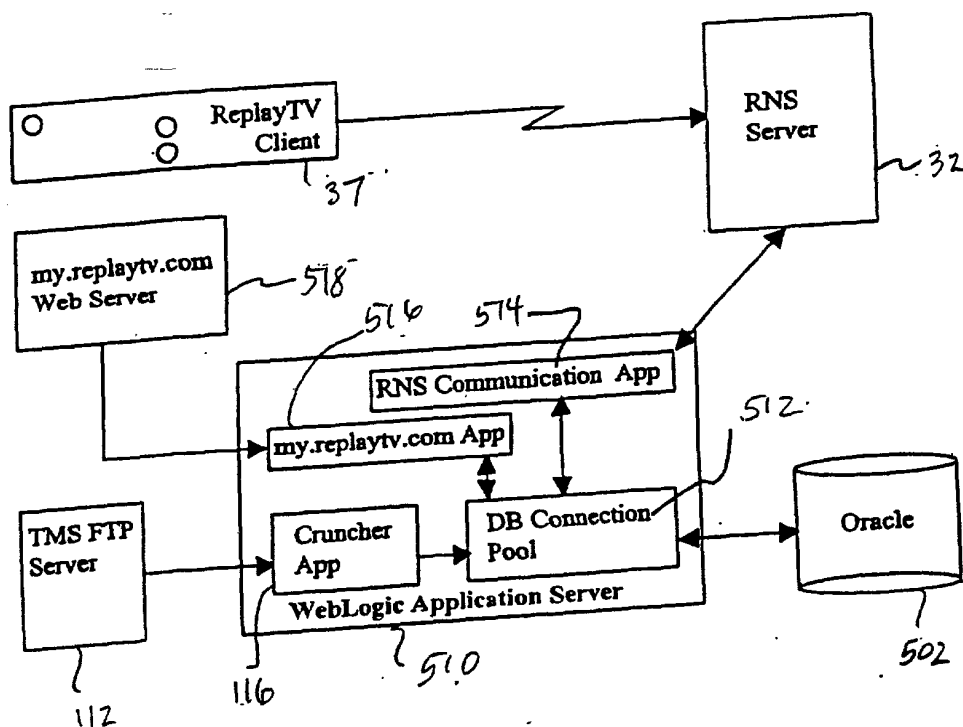


FIG. 28

05523169-000901

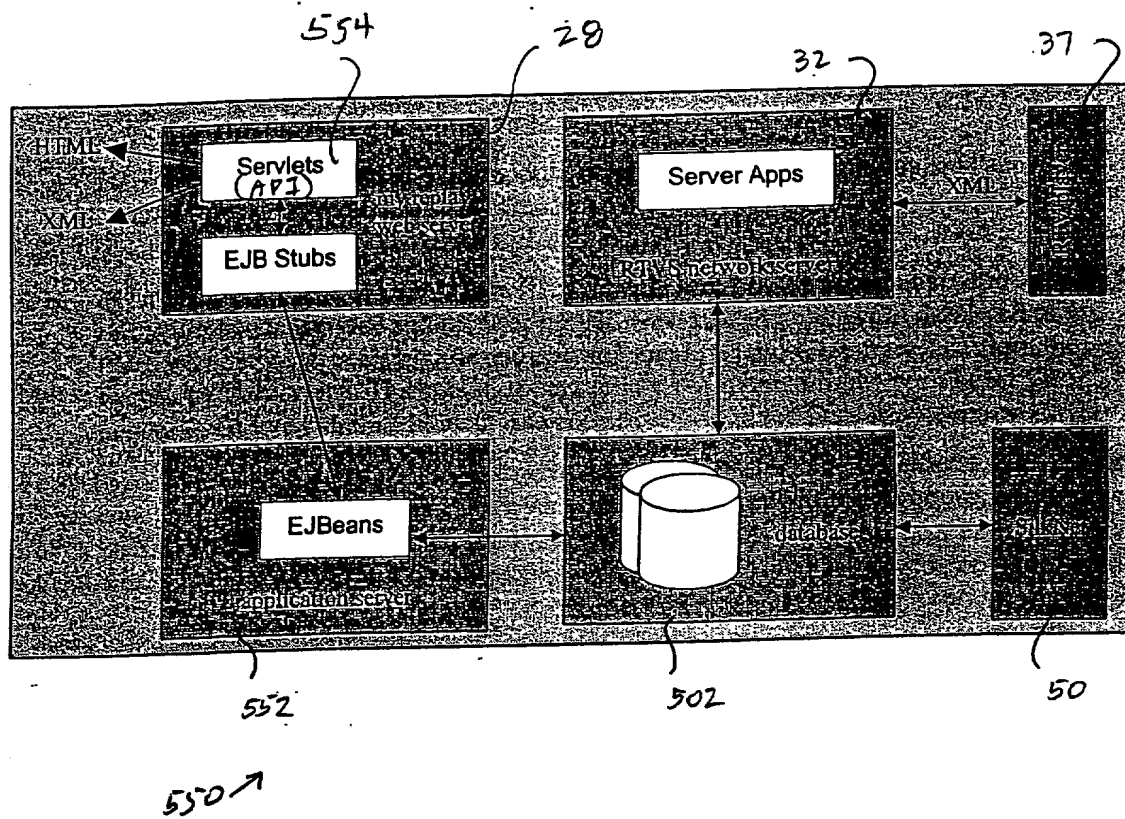


FIG. 29

09925109-080901

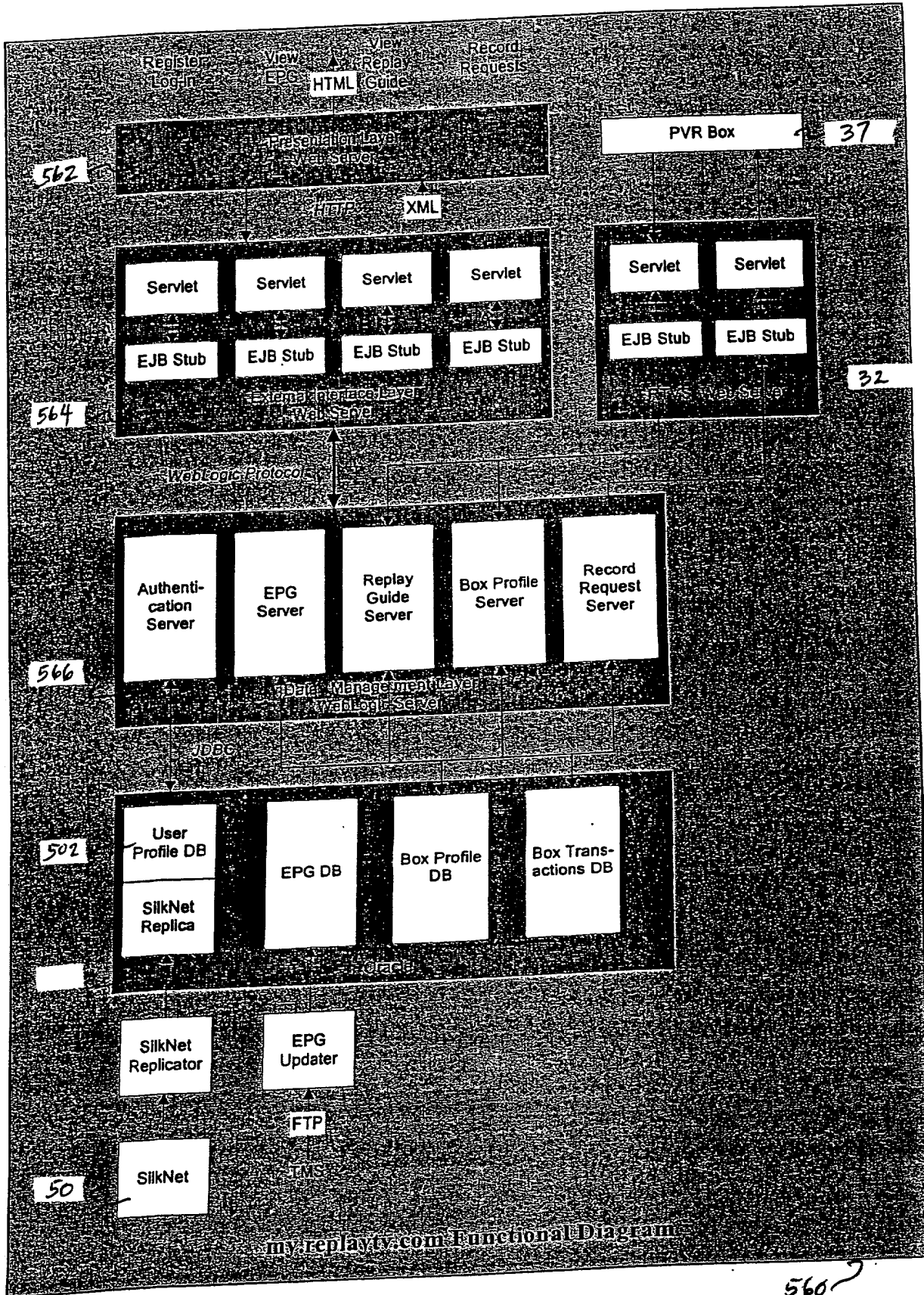


FIG. 30

560

09925409-080901

00925109-080901

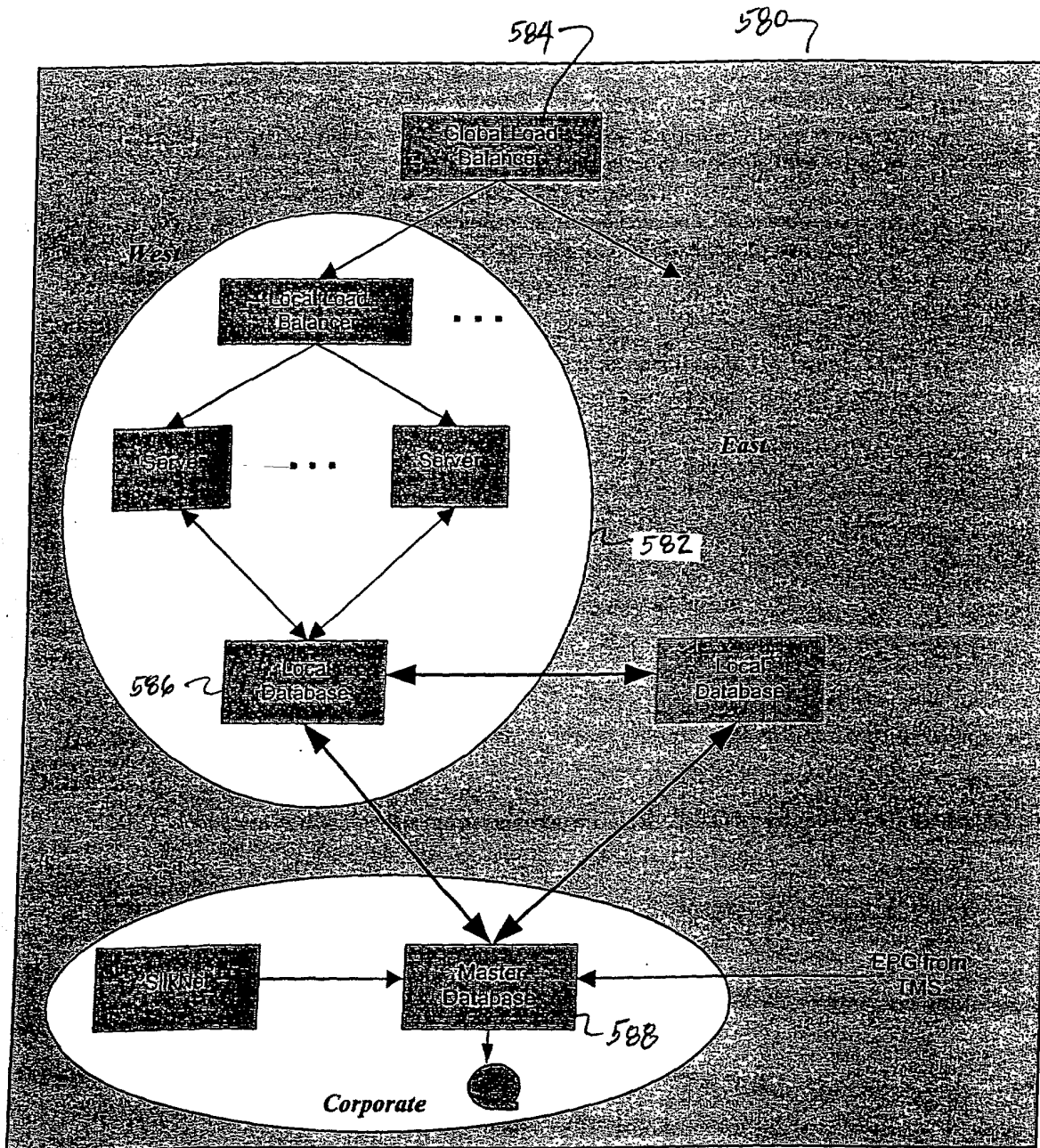


FIG. 31